

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1 1. (currently amended) A method for managing a network element inventory
2 for a video and data network comprising:
3 self-discovering a physical network inventory using network elements of the
4 video and data network;
5 self-discovering a logical network inventory using network elements of the video
6 and data network;
7 providing a planned network inventory of the video and data network;
8 loading the physical network inventory, logical network inventory, and planned
9 network inventory into the network element inventory;
10 synchronizing the physical network inventory, logical network inventory, and
11 planned network inventory in the network element inventory to determine any differences
12 between the physical network inventory and the logical network inventory with the planned
13 network inventory;
14 receiving a request for a view of the network element inventory; and
15 providing determining the view using based on at least one of the synchronized
16 physical network inventory, the synchronized logical network inventory, and planned network
17 inventory, wherein the view is determined based on if any differences between the physical
18 network inventory and the logical network inventory with the planned network inventory are
19 determined.

1 2. (Original) The method of claim 1, wherein the video and data network
2 comprises a Very high bit rate Digital Subscriber Line (VDSL) network.

1 3. (Original) The method of claim 1, wherein the video and data network
2 comprises a Digital Subscriber Line (xDSL) network.

1 4. (Original) The method of claim 1, wherein the planned network inventory
2 comprises planned virtual network inventory.

B2 1 5. (Original) The method of claim 1, wherein the planned network inventory
2 comprises planned physical network inventory.

1 6. (Original) The method of claim 1, wherein synchronizing the physical
2 network inventory, logical network inventory, and planned network inventory comprises
3 comparing the planned network inventory with the self-discovered physical and logical network
4 inventory.

1 7. (Original) The method of claim 6, further comprising creating a repair
2 ticket if the comparison of the planned network inventory with the self-discovered physical and
3 logical network inventory is not substantially equal.

1 8. (currently amended) A method for managing a network element inventory
2 between one or more operation systems for a video and data network comprising:

3 self-discovering a physical network inventory using network elements of the
4 video and data network;

5 self-discovering a logical network inventory using network elements of the video
6 and data network;

7 providing a planned network inventory of the video and data network;

8 loading the physical network inventory, logical network inventory, and planned
9 network inventory into the network element inventory;

10 synchronizing the physical network inventory, logical network inventory, and
11 planned network inventory in the network element inventory to determine any differences
12 between the physical network inventory and the logical network inventory with the planned
13 network inventory;

14 creating one or more views of the network element inventory using at least one of
15 the synchronized physical network inventory, the synchronized logical network inventory, and
16 the planned network inventory for the one or more operation systems, wherein the one or more

17 | views are created based on if any differences between the physical network inventory and the
18 | logical network inventory with the planned network inventory are determined;
19 | providing the one or more views to the one or more operation systems.

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1 9. (Original) The method of claim 8, further comprising receiving an update
2 of self-discovered physical, self discovered logical, and planned inventory.

1 10. (Original) The method of claim 9, further comprising re-synchronizing
2 the physical network inventory, logical network inventory, and planned network inventory in the
3 network element inventory with the update of self-discovered physical, self discovered logical,
4 and planned inventory.

1 11. (Original) The method of claim 10, further comprising creating one or
2 more views of the re-synchronized network element inventory for the one or more operation
3 systems.

1 12. (Original) The method of claim 11, further comprising providing the one
2 or more views using the re-synchronized physical network inventory, logical network inventory,
3 and planned network inventory.

1 13. (Original) The method of claim 8, wherein the operation systems
2 comprise sales, engineering, and marketing systems.

1 14. (currently amended) The method of claim 8, wherein the video and data
2 network comprises a Very High Bandwidth-bit rate Digital Subscriber Line (VDSL) network.

1 15. (Original) The method of claim 8, wherein the video and data network
2 comprises an xDSL network.

1 16. (Original) The method of claim 8, wherein the planned network inventory
2 comprises planned virtual network inventory.

1 17. (Original) The method of claim 8, wherein the planned network inventory
2 comprises planned physical network inventory.

1 18. (Original) The method of claim 8, wherein synchronizing the physical
2 network inventory, logical network inventory, and planned network inventory comprises
3 comparing the planned network inventory with the self-discovered physical and logical network
4 inventory.

1 19. (Original) The method of claim 18, further comprising creating a repair
2 ticket if the comparison of the planned network inventory with the self-discovered physical and
3 logical network inventory is not substantially equal.

1 20. (new) A method for managing a network element inventory for a video
2 and data network comprising:

3 self-discovering a physical network inventory using network elements of the
4 video and data network;

5 self-discovering a logical network inventory using network elements of the video
6 and data network;

7 receiving a planned network inventory of the video and data network;

8 storing the physical network inventory, logical network inventory, and planned
9 network inventory into the network element inventory; and

10 comparing the physical network inventory, logical network inventory, and
11 planned network inventory in the network element inventory to determine differences between
12 the physical network inventory and the logical network inventory with the planned network
13 inventory; and

14 determining a view of the network element inventory based on at least one of the
15 physical network inventory, logical network inventory, planned network inventory, and the
16 comparison between the physical network inventory and the logical network inventory with the
17 planned network inventory.

1 21. (new) The method of claim 20, wherein the planned network inventory
2 comprises planned virtual network inventory.

1 22. (new) The method of claim 20, wherein the planned network inventory
2 comprises planned physical network inventory.

1 23. (new) The method of claim 20, further comprising:
2 receiving a request for a view of the network element inventory; and
3 providing the view using at least one of the physical network inventory, logical
4 network inventory, planned network inventory, and the comparison between the physical
5 network inventory and the logical network inventory with the planned network inventory.

1 24. (new) The method of claim 20, further comprising if there are differences
2 between the physical network inventory and the logical network inventory with the planned
3 network inventory, selecting at least one of the physical network inventory, the logical network
4 inventory, and the planned network inventory as a representation of the network element
5 inventory.

1 25. (new) The method of claim 20, further comprising if there are differences
2 between the physical network inventory and the logical network inventory with the planned
3 network inventory, determining a representation of the network element inventory from the
4 physical network inventory, the logical network inventory, and the planned network inventory.

1 26. (new) The method of claim 20, further comprising receiving an update of
2 at least one of the self-discovered physical, self discovered logical, and planned inventory.

1 27. (new) The method of claim 26, further comprising comparing an updated
2 physical network inventory or updated logical network inventory with an updated planned
3 network inventory in the network element inventory to determine differences between the
4 updated physical network inventory and the logical network inventory with the planned network
5 inventory.

1 28. (new) An apparatus for managing a network element inventory for a
2 video and data network, the apparatus comprising:
3 a self-discovered physical network inventory using network elements of the
4 video and data network;
5 a self-discovered logical network inventory using network elements of the video
6 and data network;
7 a planned network inventory of the video and data network;

8 a database for storing the physical network inventory, logical network inventory,
9 and planned network inventory into the network element inventory;

10 logic configured to compare the physical network inventory, logical network
11 inventory, and planned network inventory in the network element inventory to determine
12 differences between the physical network inventory and the logical network inventory with the
13 planned network inventory; and

14 logic to determine a view of the network element inventory based on at least one
15 of the physical network inventory, logical network inventory, planned network inventory, and
16 the comparison between the physical network inventory and the logical network inventory with
17 the planned network inventory.

1 29. (new) The apparatus of claim 28, further comprising:
2 logic to receive a request for a view of the network element inventory; and
3 logic to provide the view using at least one of the physical network inventory,
4 logical network inventory, and planned network inventory.

1 30. (new) The apparatus of claim 28, wherein the planned network inventory
2 comprises planned virtual network inventory.

1 31. (new) The apparatus of claim 28, wherein the planned network inventory
2 comprises planned physical network inventory.

1 32. (new) The method of claim 1, wherein if differences between the self-
2 discovered physical network inventory and the self-discovered logical network inventory with
3 the planned network inventory are determined, determining the view comprising:
4 providing the view with the differences and at least one of the self-discovered
5 physical network inventory, self-discovered logical network inventory, and the planned network
6 inventory.

1 33. (new) The method of claim 1, wherein if differences between the self-
2 discovered physical network inventory and the self-discovered logical network inventory with
3 the planned network inventory are determined, determining the view comprising:

4 selecting one of the self-discovered physical network inventory, self-discovered
5 logical network inventory, and the planned network inventory for the view.

32 1 34. (new) The method of claim 8, wherein if differences between the self-
2 discovered physical network inventory and the self-discovered logical network inventory with
3 the planned network inventory are determined, determining the view comprising:

4 providing the view with the differences and at least one of the self-discovered
5 physical network inventory, self-discovered logical network inventory, and the planned network
6 inventory.

1 35. (new) The method of claim 8, wherein if differences between the self-
2 discovered physical network inventory and the self-discovered logical network inventory with
3 the planned network inventory are determined, determining the view comprising:

4 selecting one of the self-discovered physical network inventory, self-discovered
5 logical network inventory, and the planned network inventory for the view.